

0590
0625

OIPE

#10

DATE: 06/
TIME: 16:5

ENTE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/988,384BInput Set : A:\600536US1.txt
Output Set: N:\CRF3\06112002\I988384B.raw

4 <110> APPLICANT: Sherman, D.H.
 5 Liu, H.
 6 Xue, Y.
 7 Zhao, L.
 9 <120> TITLE OF INVENTION: DNA encoding methymycin and pikromycin
 11 <130> FILE REFERENCE: 600.536US1
 13 <140> CURRENT APPLICATION NUMBER: US 09/988,384B
 14 <141> CURRENT FILING DATE: 2001-11-19
 16 <150> PRIOR APPLICATION NUMBER: PCT/US99/14398
 17 <151> PRIOR FILING DATE: 1999-06-25
 19 <150> PRIOR APPLICATION NUMBER: US 09/105,537
 20 <151> PRIOR FILING DATE: 1998-06-26
 22 <160> NUMBER OF SEQ ID NOS: 53
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 15872
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Streptomyces venezuelae
 29 <400> SEQUENCE: 1
 30 ttaattaagg aggaccatca tgaacgaggc catcgccgtc gtcggcatgt cctggccgtt . 60
 31 gccgaaggcc tcgaacccgg ccgccttctg ggagctgtc cggaaacgggg agagcggcgt 120
 32 caccgacgtg cctccggcc ggtggacgtc ggtgtccggg ggagcggacg ccgaggagcc 180
 33 ggcggagtcc ggtgtccggc gggggcggtt ctcgactcc ctcgactct tcgacgcggc 240
 34 cttcttcgga atctcgcccc gtgaggccgc cgcacatggac cccgcaccc gactgtcct 300
 35 cgaactcgcc tggaggccgc tggaggacgc cggaaatcgtc cccggcaccc tcgcccgaag 360
 36 ccgcacccgc gtcttcgtcg gcacccgtcg ggacgactac acgagcctcc tctaccagca 420
 37 cggcgagcag gccatcacc accacaccat ggccggcggt aaccggggcg tcatcgccaa 480
 38 ccgcgtctcg taccacctcg gcttcgaggc ccgcggcctc accgtcgacg ccgcgcgtc 540
 39 gtcctcgctc gtccgcgtcg acctcaacat ctcgcggag actcaagccg cgcgcgggg 600
 40 ggcgtcgctc gccggcggtg acctcaacat ctcgcggag actcaagccg cgcgcgggg 660
 41 ctccggtgga ctctcccccgg acggcaccgc ctacacccgc gacgcgcggg ccaacggatt 720
 42 cgtccggggc gagggcgccg gatgtcgctg actcaagccg ctctcccccgg ccctcgccga 780
 43 cggcgaccgt gtccacccgc tcacccgc cggccgcgtc aacaacgacg gagccacccc 840
 44 gggctcacc gtcccgccgca gggccggccaa ggagaagggtg ctgcgcggg cgtaccggaa 900
 45 ggcggccctg gacccgtccg cggccgtcg cggccgtccgc ggctcgccgc gcccggccgg 960
 46 cggcgacccc atcgaggccg cggccaaagac gaacgtcggg cacctcgaaag cggccggccgt 1020
 47 cgaacccctg ctgcgtcgct cggccaaagac gaacgtcggtt ctcggccgg cggccggatcc 1080
 48 catcgctccgc ctcatcaaga cggccaaagac gaacgtcggtt ctcggccgg cggccggatcc 1140
 49 caacttcgt acgccccacc cggacatccc gtcgacacc ctcggccgtc acgtccccga 1200
 50 cggcctcggt gatggccgc acccgaccc acgtcgctt cggccgtc cggccggccgt 1260
 51 catggccgc accaacgccc acgtcgctt cggccgtc cggccggccgt cggccggatcc 1320
 52 gcccggccatc gatgaggaga ccccccgtcg cggccggccgt cggccggatcc tgcgtcacc 1380
 53 cggccggccgc ggcgaggcccc tgcgcggccaa ggccggccgc ctgcacccgg cctcgaaagc 1440
 54 ggacccggag ctcgcggcccg cggcactcgcc cggccgtcg gtcaccaccc gtacggctt 1500

RAW SEQUENCE LISTING
PATENT APPLICATION: US/

Input Set : A:\600536US1.txt
Output Set: N:\CRF3\06112002\198

55 cacgcacccgg tcggtcgtcc tcgccccggga ccgcgcggc ctcctcg 11/2002
 56 cctcgccggcc gggacgcccgg cgcccgccgt ggtcacccggc acccccggcc 53:12
 57 cggcgctctg ttcaagcgcc agggtggccaa acgtacgggc atgggatgg a
 58 cggccacccggcc gccttcgcga cggccttoga cggcgccgc ggggactgg acc
 59 cggccggccct ctgcggaaac tcgtcgccg tggagggtcgcc cttccaccgc ctcgaccgc 1560
 60 acagccggccct ctgtcgccg gccactccgt cggcgagatc agcgccggcc acgtcgccgg
 61 cagccccgac ctgcgtcgccg cccggccgt cgtcgccg cggcgccgc tcatgcaggc
 62 gtcctgtcg ctgcgcgacg cccggccgt cggcgccgt cggcgccgc acgtcgccgg
 63 qctcccccgg ggcggccggaa tggtcgccgt cgaggcgacg gaggaggaag tgcttccgca
 64 ctcgcggggc cggcggccgg cggcgtcgcc cttccactcg cggccgtcg aacggccccc ggcggccgt
 65 ctcgcggggc gccgacggc cggcgtcgcc cttccactcg cggccgtcg aacggccccc ggcggccgt
 66 cggacagaag cggcgtcgcc cggcgtcgcc cttccactcg cggccgtcg aacggccccc ggcggccgt
 67 cgacgacttc cggcgggtcg tcaagagatc ggacttcccg cggccgtcg aacggccccc ggcggccgt
 68 gtccacggtg acgggctgc ttcgcacgc cttccactcg cggccgtcg aacggccccc ggcggccgt
 69 ggaccagggtc cggcggcccg ttcctggagc tgggtcccgta cggccgtcg aacggccccc ggcggccgt
 70 cggccacacc ttccctggagc tgggtcccgta cggccgtcg aacggccccc ggcggccgt
 71 cgtacgac caggaggccg ccacggccgt ctccaccgt cttcgccgg 204
 72 ccagtcgtcg ctgcggcgtc tcaccaccgt cttcgccgg 2100
 73 cggccgtcgac gggagcaccg gacgggtcg 2160
 74 cgaacgcac tgggtcgacg gggccgtcg 2220
 75 gggcaccgggt gggggccggg tgggtcggt 2280
 76 gggcgaggcc gggggccggg tgggtcggt 2340
 77 cgtgcgcac cactgcgtcg cttcgactc 2400
 78 cttcaccctc aaggagctgg gcttcgactc 2460
 79 cgtcgcac acgggactgc gcttcgactc 2520
 80 cggccctcgcc gcccacccgt gggccgtcg 2580
 81 cgacgggata cggccggca cccggccgg 2640
 82 catggcctgc cgtaccccg gggccgtcg 2700
 83 cgagggccgc gacccgtcg 2760
 84 cgacggccac cccggccgtcg 2820
 85 cggccctcgcc ttcgacccgt gggccgtcg 2880
 86 cccgcacccgt gggccgtcg 2940
 87 cccgcacccgt gggccgtcg 3000
 88 cggcccgccgc atgcacgcg gggccgtcg 3060
 89 gcccacccgt gggccgtcg 3120
 90 cgtcgcac acgggactgc gggccgtcg 3180
 91 gcagggccgc gggccgtcg 3240
 92 gttcgactcg ttcgacccgt gggccgtcg 3300
 93 cgtacccgtc gacccgtcg 3360
 94 ctcggacccgc gggccgtcg 3420
 95 ccaggacccgc gggccgtcg 3480
 96 cggacaggcc ctcggccgtcg 3540
 97 cggatccgtcg acccggccgtcg 3600
 98 ccgggacccgc gggccgtcg 3660
 99 cggcggccgc gggccgtcg 3720
 100 cgtccctcgcc agggacgtcc acgtggaccc 3780
 101 cggcgtcgatcc ctcctcaccg agggccgg 3840
 102 gggcgtcgatcc tcctcggca tcaacggccac 3900
 103 ggaagccggg gggccggccgtcg 3960
 104 gggccgtcgatcc acgtggaccc 4020
 105 gggccgtcgatcc acgtggaccc 4080
 106 gggccgtcgatcc acgtggaccc 4140
 107 gggccgtcgatcc acgtggaccc 4200
 108 gggccgtcgatcc acgtggaccc 4260
 109 gggccgtcgatcc acgtggaccc 4320
 110 gggccgtcgatcc acgtggaccc 4380
 111 gggccgtcgatcc acgtggaccc 4440

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/988,38

Input Set : A:\600536US1.txt

Output Set: N:\CRF3\06112002\I988384B.ra

104	ggcggacacc accgccacca cgacgcggc cgccgtcgcc gtccccgaac	1/2002 13:12
105	ccccgtcggt gtctccgcg gggacgcgc cggccctgcgc gcccaggccg ttccy	
106	gaccttcctc gacggccgac cggacgtcac cgtcgccgac ctccggacgt cgctgg	
107	cgttaccgc ttcgagcaca agggccgcct caccaccgc accagggacg agctgctc	
108	cgggctcgac gcccctcgcc gggggagca agccacgggc ctggtcaccc gccaaccggc	4500
109	cgggcccga cgcacggct tcctttcac cggccaggga ggcgcggc tcgccatggg	600
110	cgggaaactg cgcgcgcgc accccgttt cggccggcc ctgcacaccg tgtacgcggc	0
111	cctcgaccgt cacctcgacc ggccgtcgcc ggagatgtc gcccgggg aggagctg	
112	cctcaccgcg tacacccgcg cggcccttcc cgccttcgag gtggcgctgt tccgcctct	
113	cgaacaccac ggcctcgcc cgcacctgtc caccggccac tccgtcgccg agatcgccgc	492
114	cgcgcacgtc gccgggttcc tcccttcga cgcgcgcgc cgtctgtca cggccggcgg	4980
115	ccggctcatg cagtccgcg cggaggccg cgcgtatgtc gccgtcgagg cggcgaggc	5040
116	cgggtcgcc gagtccctga agggctacga gggcagggtc gccgtcgcc cgtcaacgg	5100
117	acccacccgc gttgtcgct cgggcacgc gacgcgcgc gaggagatcc ggcgcgtatg	5160
118	ggcgggacgc ggccggcga cccgcaggct ggcgtcgac cacgccttc actcccgca	5220
119	catggacgac gtccctcgac agttctccg gtcgcccgg ggcctgaccc togaggagcc	5280
120	gccccatcccc gtctgttcca cggtaaccgg cgcgtcgtc acgtccggc agtcaccc	5340
121	gcccgcgtac tgggtcgacc agatccggc gcccgtcgcc ttccctggacg cgtccgcac	5400
122	cctggccgc caggacgcga cgtctctgt cgagatcgcc cccgacgcgc tcctcacggc	5460
123	actcggccgag gaggctctcg cggccggcac gacgcgcgg gacgcgcgg acgtacgg	5520
124	cgtcccgctg ctgcgcgcgg ggcgcgcga gcccggagcc ctcgcgcgg gtcgcgcac	5580
125	cgcgcgcgtc cacggcgcac cttggaccc ggcgtcgcc ttcccgacg ggcgcgcac	5640
126	ggacctgccc acgtacgcct tccggcgcga gcactactgg ctgacgcgcg aggccgtac	5700
127	ggacgcgcgc gcaactcggt tcgaccggc gggcaccgg ctgtcgacga ccacggtcga	5760
128	ggtcgccggc ggcgacggc gtcgtcgacc cggccgtctc tccctgaccc accagccctg	5820
129	gctggccgac cacatggta acgggcgcgt ctgttgccg gccaccgcct tcctggagct	5880
130	cgcgcgcgc gggggcggc acgtcgggc ggtccgggt gaggactca ccctcgaaagc	5940
131	gccgcgtcgcc ctgcccggc ggggcgcgt cgcacatccg gtcggcgta gggcgacgg	6000
132	cgagtccgcg gccccggcga cttcggtgt gtacagcacc cccgactccg ggcacaccgg	6060
133	tgacgacgcg ccccgaggat ggacccggca tgcgtccggc gtcgtcgacc tacacccggc	6120
134	ggccacggag tcgaccacc cggcaccga cggggacggt tcagcggcct ggccgcctgc	6180
135	ggcggcgcacc gccacacccc tgcacggcg ctgcggagc acacgctcg	6240
136	atacggcccg gccttccagg gctgtacgg gctgtggcgcc gacggcgcc acacgctcg	6300
137	cgagatccgg ctgcccggc gtcgtcgacc gacggcgcc acacgctcg	6360
138	gctgtcgac gcggcgctcc acccgatgt ctggaggggc aactcagctg cgggtcgctg	6420
139	tgacgccgat accgacgcga cggacccggt cgggtcgcc ttcgtcgaaa cgggggtgac	6480
140	cctccacgcc gaaggggca cggcgtctcc cgtacggatc acacccaccg gcccggacac	6540
141	ggtcacgcgc cgcctcaccg acaccacccg tgcgtccgtg gccaccgtgg agtccctgac	6600
142	cctgcgcgcg gtggcgaagg accggcttgg caccaccgc gggcgcgtcg acgacgcct	6660
143	gttcacggcgt gtgtggacgg agacgggcac accggaaaccg cggggcgcgc gagccgtgg	6720
144	ggtcgaggaa ctcgtcgacc tcgcccggct cggcgcaccc gtcgtcgacc gggccgtgg	6780
145	cgtcgccctc cggggcgcacc gtcgtcgacc gtcgtcgacc ggcgcgcgc	6840
146	agccgtccgg cgcacccctcg ccatcggtca ggagtccgt tcgcacccgc gttcgacgg	6900
147	ctcgcgcactg gtgtcgaccc ctaggggcgc ggtcgccgc ctcccccggc aggacgtcac	6960
148	ctccctcgcc accggccccc ttggggccct cgtccgtcc gccacgtccg agaaccggg	7020
149	acgcctgttc ctcttgacc tgggtgaagg cgaaggcgag cgcgcacggc cggaggagct	7080
150	gatccgcgcg gccacggccg gggacgagcc gcaacgtcgcc gacacggccg gcccactgt	7140
151	cgcgcgcagg ctggcccgta ccggccccc ttcgatgtgag gacacccgcg gcccgcgcga	7200
152	ccgtttcgcc cccgacggca cgtctctgt caccggggc accggaggcc tcggagcgct	7260
		7320
		7380

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/988,384B

DATE: 06/11/2002

TIME: 16:53:12

Input Set : A:\600536US1.txt

Output Set: N:\CRF3\06112002\I988384B.raw

153	cctcgccgc cacctcgtgg agcgtcacgg ggtgcgcccgg ctgctgctgg tgagccgccc	7440
154	cgggccgac gccccggcg cggccgacct gggcgaggac ctgcggggcc tcggcgccga	7500
155	ggtggcgttc gccgcccggc acgcccggca ccgcgagagc ctggcgccgg cgatcgccac	7560
156	cgtccccgcc gagcatccgc tgacggccgt cgtcacacg gcgggagtcg tcgacgacgc	7620
157	gacggtgag ggcctcacac cggAACGGCT ggacgcggta ctgcggccga aggtcgacgc	7680
158	cgcgtggaa ctgcacgagc tccaaggaa cctgcggctc gacgccttcg tcctttctc	7740
159	ctccgtctcc ggcatcgctcg gcaccggcgg ccaggccaa tacgcggccg ccaacacggg	7800
160	cctcgacgcc ctgcggccccc accgcggccgc cacgggcctg gccgccacgt cgctggccctg	7860
161	gggcctctgg gacggcacgc acggcatggg cggcacgctc ggcggccggc acctcgcccg	7920
162	ctggagccgg gccggaaatca ccccgctcac cccgctgcag ggcctcgccg tcttcgacgc	7980
163	cgcggtcgccc agggacgacg ccctcctcgat acccgccggg ctccgtccca cgcggccacgg	8040
164	gggcacggac ggacagcctc ctgcgtctgt gcgcggccctc gtccggggcgc gcccgcggc	8100
165	tgcggcgcgg acggccggccg aggccggcgg aacgaccggc ggctggctga gcggtcgcc	8160
166	cgcacagtcc cccgaggagc ggccgacgc acgcgtcacg ctgcgtacgg gtgtcgccgc	8220
167	ggacgtcctc gggcacggccg actccggccgc ggtcgccggc gagcggctct tcaaggacct	8280
168	cggcttcgac tccctggccg gggtagact cgcacccgg ctgaacggccg ccaccggcct	8340
169	gcccgtcccc ggcacccacgg tcttcgacca tccctcgccg gccgcgtctc cgtcccatct	8400
170	cctcgcccaag gtgcccgggt tgaaggaggg gacggccggc accgcgaccg tcgtggccga	8460
171	gccccggcgt tccttcggg accgtgcac cgacgacgat ccgatcgca tcgtggccat	8520
172	ggcatggccg tatccgggtg gtgtgtcgcc gccggaggac ctgtggccgc tggggccga	8580
173	ggggacggac ggcacccacgg agttccccgt caaccggc tggggacctgg agagcctcta	8640
174	cgcacccggat cccgagtcga agggcacccac gtactggccg gaggccgggt tccttggagg	8700
175	cgcgggtgac ttgcacggccg ccttcgtccg catctcgccg cgcggccccc tggatggaa	8760
176	cccgccacgg cggctctgc tggagggtgc ctggggaggcc ctggaaacgcg cggccatcgaa	8820
177	cccgccctcg ctgcggccgca gccgcgggtgg tgtctacgtg ggcgcggcc acggctcgta	8880
178	cgcctccgat cccggctgg tgcccgaggc ctggaggcc tatctgtga cggcagcgc	8940
179	cgcacccggat atgtccggcc gcatctccata cgcgtcggt ctcgaaggac cgtccatgac	9000
180	gggtggagacg gctctgtctt ctcgtcggt ggacgtgcat ctggcggtac gggcgctgc	9060
181	gcacggcggag tgcgggtcg cgctggccggg cgggggtggc gtgtatggccg atccggccgc	9120
182	gttcgtggag ttctccggc agaagggggt ggcgcggc acgcgttctc ggccgcgtca aggccgttctc	9180
183	ggccgcggcc gacggcacccg gtcggccggc gggcgccggc gtgcgtctcc tggagccggct	9240
184	gtcggacgcg cgcggccgg ggcacacggt ctcggccctc gtacccggca cgcggctcaa	9300
185	ccaggacggat gcctccaacgc gcgtgaccgc gcccaacggc ccagcccaac aacgcgtcat	9360
186	cgcggaggccg ctgcacgcg cccggctgtc cccggaggac gtggacgcgg tcgaggccgc	9420
187	ccgcacccggc acccgctcg ggcacccat cgaggccggg ggcgtctcg ccgcctccgg	9480
188	acggacccgt tccggcgacc acccgctgtg gtcgggtctcg ctgaagtccaa acatcgccca	9540
189	tgcggcggcc gccgcgggtg tcggcgccgt catcaagatg ctccaggccgc tgcggcacgg	9600
190	cttgcgtcccc cgcacccctcc acgcgcacga gccgaccccg catgcgcact ggagctccgg	9660
191	cggggtagccg ctgcacccat cggagggtgcc gtggcagccgg acggccggcc cccggccggac	9720
192	cgggggtgtcc gccttcggcg tcggcgccac caatcccat gtgcgtctcg aagaggcacc	9780
193	cgcggccccc ggcggaaac cggccggggg ggcggccggc ggctccggc cgcggccgg	9840
194	ggcgaaaggcc cccctggccct gggtaggtctc cggacgcgc acgcgtccca tgggtccca	9900
195	ggccggccggc ctccggccacc acctctcccg caccggccgg gccggccggc gtacatcgcc	9960
196	cttccctccgc gccgcacgc gcgcacgc tgcggccaccgc ggcgtctga tcggctcgaa	10020
197	cggggccgaa ctgcggcccg ccctggacgc gttggccgaa ggacgcgc acgcgtccca	10080
198	gggtggcgaa gtccggaccc gggacggccag gatggccctc ctcttcaccc ggcaggccag	10140
199	ccagcgccgc gggatggccc acgacccgtca tgcggcccat accttcttcg cgtccggccct	10200
200	cgcacggaggta acggacccgtc tgcggccgt gtcggccgg cgcgtccggc cgcgtcgaa	10260
201	cgcggccacc ggcgtccggc aagccggact ctcggaccgg accgactaca cccagccggc	10320

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/988, 384B

DATE: 06/11/2002

TIME: 16:53:12

Input Set : A:\600536US1.txt

Output Set: N:\CRF3\06112002\I988384B.raw

202	gctcttcgcc	gtcgagggtgg	cgtccacccg	gctgctggag	cactggggga	tgcgccccga	10380
203	cctgctgctg	gggcactcgg	tgggcgaact	ggcgcccgcc	cacgtcgcgg	gtgtgctcga	10440
204	tctcgacgac	gcctgcgcgc	ttgtggccgc	ccgccccagg	ctgatgcagc	gcctgcgcgc	10500
205	ccggcgccgc	atggctccg	tcggggccgg	cgaggacgag	gtccgcgcac	tgctggccgg	10560
206	cccgaggac	gccgtctgcg	tcgcccgcgt	gaacggccccc	cgtccgggtt	tgtatctccgg	10620
207	cgcgaggaaa	gccccggccg	aggcgccggc	gcagactcgc	ggacgaggcc	gccgcaccag	10680
208	gcggctccgc	gtcgccacg	ccttccactc	accctctatg	gacggcatgc	tcggccggatt	10740
209	ccgggaggtc	gccgcggcc	tgcgttaccg	gaaaccggag	ctgacggctg	tctccacgg	10800
210	cacggggcgg	cccgcggcc	ccggtaact	cacccggccc	gactactggg	tggcccaaggt	10860
211	ccgtgagccc	gtgcgttccg	cgacgcgg	ccgcacggca	caccgcctcg	gagcccccac	10920
212	cttcttggag	accggcccg	acggcggtgt	gtgcggcatg	gcagaggagt	gcctggagga	10980
213	cgacaccgtg	gccctgtgc	cgcgatcca	caagcccgcc	accgcgcgc	acggtccggc	11040
214	ggctccggc	gctgtcggg	cgccgcgcgc	cgctacggc	cggggcgccc	gggtggactg	11100
215	ggccgggatg	cacgcgcacg	gccccgaggg	gccggccgc	cgcgtcgaac	tgcccgtcca	11160
216	cgccttcgg	caccggcgt	actggctgc	cccgccgc	gcggcgagaca	ccgacgactg	11220
217	gatgtaccgg	atcggttggg	accggctgcc	ggctgtgacc	ggcggggccc	ggaccgcgg	11280
218	ccgctggctg	gtgatccacc	ccgacagccc	gctgtccgg	gagctgtccg	gccacgcgc	11340
219	aegcgcgctg	cgcgccgcgg	gccccgagcc	cgtaccgc	cccgtggacg	ctccggccgc	11400
220	cgaccggcg	tccttcgcgg	cactgctgcg	ctccgcacc	ggacctgaca	cacgagggtga	11460
221	cacagccgcg	cccgtggccg	gtgtgtctgc	gctgtgtcc	gaggaggata	ggcccccattcg	11520
222	ccagcagcc	ccgttacccg	ccgggggtct	ggcgtacgt	tccctgtatgc	aggctatgg	11580
223	ggaggaggcg	gtggaggctc	gcgtgtgggt	cgtctccgc	gccgcggctg	ccggccgcga	11640
224	ccgggaacgg	cccgtggcg	cgggcgccgc	cctgtgggg	ctggggcggg	tggccgcct	11700
225	ggaacgcggc	accgggtggg	gctgttctgt	ggacctgccc	gcctgcggcg	gtgcggcgca	11760
226	ctggcgccgc	gccgttggaa	ggctgcgcgg	tcccgaggac	cagatgcgcg	tgcgcgctc	11820
227	cggcagttgg	ggccggcgcc	tcaccaggct	gccgcgcgac	ggcggcgccc	ggacggccgc	11880
228	accgcgtac	cgccgcgcg	gcacgggtgt	cgttaccgg	ggcacggcg	cgctcgccgg	11940
229	gcatctcgcc	cgtgtctcg	ccgcggcgccc	cgccgaacac	ctggcgctca	ccagccgcgc	12000
230	ggcccgccgac	gcccggcg	ccgcggact	cgaggccaa	ctccctctcc	tggccgccaa	12060
231	ggtgacgttc	gccgtctgcg	acaccggca	ccgcgcacggc	ctgcggccgg	tcctgcgggc	12120
232	gataccggag	gacacccgc	tcaccgggt	gttccacgca	gccccgggtac	cgcagggtcac	12180
233	gccgtgtcc	cgttccgc	ccgagactt	cgccgtgt	tacgcgggca	aggccgggg	12240
234	cgccgcgcac	ctggacgaac	tgaccggcga	actggcgcc	ggactcgacg	cgttgtct	12300
235	ctactcctcc	ggccggcg	tctggggcag	cccgccgcag	ggtgcctacg	ccggccgc	12360
236	cgcgcctcg	gacgcgtcg	ccggcgccg	tgcggcgac	ggactccccc	ccacctccat	12420
237	cgcctgggc	gtgtgggcg	gccccggat	ggggccgac	gaggccggcg	cgaggtatct	12480
238	ggccggcg	gttatgcgc	ccatggcacc	ggttccgcg	ctccggcga	tggccaccgc	12540
239	catgcctcc	ggggaacct	gccccacgt	caccacacc	gactgggac	gttccggcga	12600
240	gggcttcacc	gccttcggc	ccagccctct	gatgcgggg	ctggcacgc	cgccggcg	12660
241	cggggcgccg	gagaccccg	aggagggaa	cgccacccgt	cgccgggacc	tcaccggcc	12720
242	gcgcggccgc	gaactccgc	ccgcgtcg	cgagctgg	cgagcccg	ccggccgcgc	12780
243	gtcggccctc	gacgacccgg	ccgagggtcg	cgaggcgaa	cggttccccc	ccatggctt	12840
244	cgtactccctg	gccaccgtac	ggctgcgcgc	cgactcgcc	tccgcacgg	gcctgcaccc	12900
245	cccccccgat	ctgttcccg	accggacac	cccgccgcg	ctgcgcgc	acctggccga	12960
246	actgtcgcc	accgcacgg	accacggacc	cgccggccccc	gggacccgt	ccgcgcgcgc	13020
247	cgtgcgcg	agcggccctgc	ccggccctcta	ccggaggcc	gtccgcaccg	gccggggccgc	13080
248	ggaaatggcc	gaactgtcg	ccgcgcgttc	ccggttccgc	cccgccttcg	ggacggcgga	13140
249	ccggcagccg	gtggccctcg	tgccgttggc	cgacggcg	gaggacaccg	ggctcccgct	13200
250	gtcggtggc	tgcgcgggaa	cggcggtggc	ctccggcccg	gtggagttca	ccgccttcgc	13260

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/988,384B

DATE: 06/11/2002
TIME: 16:53:13

Input Set : A:\600536US1.txt
Output Set: N:\CRF3\06112002\I988384B.raw

L:4646 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:4650 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:25